

11A

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/681,467	EMERIC ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Brij B. Shrivastav	2859	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**  
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to petition dated December 14, 2004.
2. ☒ The allowed claim(s) is/are 1-7, 9-12 and 14-30.
3. ☒ The drawings filed on 12 April 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

Art Unit: 2859

1. Applicant's petition dated December 14, 2004 to withdraw holding of abandonment has been granted. Applicant's amendment dated January 6, 2004 has been received and entered. Claims 8 and 13 have been canceled, and claims 1, 10, 21, 25 and 28 have been amended. The pending claims in the application 1-7, 9-12, 14-30 are in allowable condition.

### **REASONS FOR ALLOWANCE**

2. The following is an examiner's statement of reasons for allowance:

Claims 1-7 and 9 are allowed, as the prior art of record does not teach or suggest a cooling system, including a control system configured to provide control signals to the coolant pump to adjust the flow rate to further adjust coolant temperature, in combination with the remaining limitations of the claims.

Claims 10-12 and 14-16 are allowed, as the prior of record does not teach or suggest a cooling system for an MRI device, including a controller regulating the coolant flow control valve to adjust coolant flow in the cooling system to control coolant temperature, in combination with the remaining limitations of the claims.

Claims 17-20 are allowed, as the prior art of record does not teach or suggest an MRI apparatus, including a control controlling a coolant temperature, thereby maintaining steady gradient temperature in and around the vacuum chamber, in combination with the remaining limitations of the claims.

Claims 21-24 are allowed, as the prior art of record does not teach or suggest a method of cooling an MRI, including steps of adjusting an internal pressure in the

sealed enclosure in response to the indication of internal pressure in the sealed enclosure, in combination with the remaining limitations of the claims.

Claims 25-27 are allowed, as the prior art of record does not teach or suggest a coolant control system kit adaptable to an MR device, including a controller connected to receive temperature indicative signals from the temperature sensor and control coolant flow in response thereto, in combination with the remaining limitations of the claims.

Claims 28-30 are allowed, as the prior art of record does not teach or suggest an MR coolant system, including a control means for receiving feedback indicative of internal pressure in the enclosure dynamically adjusting internal pressure in the enclosure, in combination with the remaining limitations of the claims.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B. Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 25, 2005

  
Brij B Shrivastav  
Primary Examiner  
Art Unit 2859

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